
पिट्यूतरी रेंगेउर

(पहला पुनरीक्षण)

Pituitary Rongeur

(First Revision)

ICS 11.040.30

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FOREWORD

This standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Neurosurgery Instruments, Implants and Accessories Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was originally published as IS 9072 : 1979 'Specification for Rongeur, Pituitary'. This first revision includes minor changes in references to incorporate the updated designation of steel and the currently used methods of test corrosion resistance. After publication of this standard, IS 9072 : 1979 stands withdrawn.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

Indian Standard
PITUITARY RONGEUR
(First Revision)

1 SCOPE

This standard specifies dimensional and other requirements for pituitary rongeur used in neurosurgery.

2 REFERENCES

The standard given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

<i>IS No.</i>	<i>Title</i>
IS 6603 : 2001	Stainless steel bars and flats — Specification (<i>first revision</i>)
IS 6528 : 1995	Stainless steel wire — Specification (<i>first revision</i>)

IS No.

Title

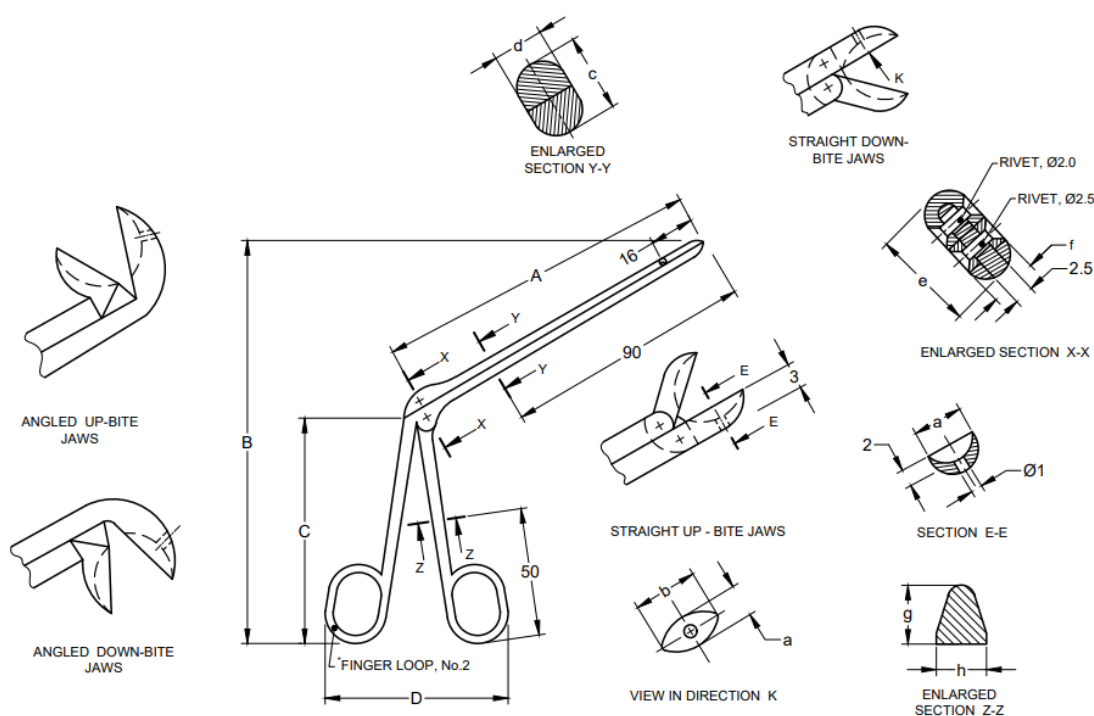
IS 3642 (Part 1) : 1990	Surgical Instruments — Specification: Part 1 Non cutting articulated instruments (<i>second revision</i>)
IS 7531 : 1990	Methods for testing of corrosion resistance of stainless steel surgical instruments (<i>first revision</i>)

3 TYPE, SHAPE AND DIMENSIONS

3.1 The pituitary rongeur shall be of the following two types:

- Type 1 — Straight, up-bite or down-bite jaws; and
- Type 2 — Angled up-bite or down-bite jaws.

3.2 The shape and dimensions shall be as shown in Fig. 1 unless otherwise agreed to between the purchaser and the supplier.



* SEE IS 3642(PART 1) : 1990

ALL DIMENSIONS IN MILLIMETRES.
 FIG. 1 PITUITARY RONGEUR

3.3 The dimensions shall be as given in Table 1.

Table 1 Dimensions of Pituitary Rongeur

Sl No.	Size	A	B	C	D	a	b	c	d	e	f	g	h
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
i)	1	142	165	90	70	2x10		4	6	12	6	5	5
						3x10							
						4x10							
						5x10							
ii)	2	169	175	80	78	2x10		4	6	25	6	6	4.5
						3x10							
						4x10							
						5x10							

3.3.1 Tolerance of ± 2.5 percent is permissible on all dimensions.

3.3.2 Tolerance of 2° is permissible for angular dimensions.

4 MATERIAL

4.1 Arms and Jaws

These shall be made of stainless steel conforming to designation X40Cr13 of IS 6603.

4.2 Rivets

These shall be made of stainless steel conforming to designation X12Cr13 of IS 6528.

5 WORKMANSHIP AND FINISH

5.1 The rongeur shall be free from scale, burrs, cracks, pits, tool marks and other surface defects.

5.2 All edges shall be smoothly rounded off except the cutting edge, which shall be as shown in Fig. 1.

5.3 The rongeur shall operate smoothly and there shall be no play between the fixed jaw and the movable jaw. The opening and closing action shall be neither too hard nor too slack. On closure, the jaws shall register precisely.

5.4 A hole of 1 mm diameter shall be provided in the centre of the fixed jaw to allow overflow of the entrapped fluid. If required by the purchaser, a similar hole may be provided in the other jaw as well.

5.5 The rongeur shall be finished bright and passivated.

6 HEAT TREATMENT

The rongeur shall be uniformly hardened and tempered to a hardness of 540 HV to 600 HV.

7 TESTS

7.1 The rongeur shall be made to bite off a piece of chamois leather of 1 mm thickness. The rongeur shall do it easily and cleanly. This shall be repeated 10 times. During and on completion of the test, the rongeur shall show no sign of damage.

7.2 Corrosion Resistance

Rongeur shall show no sign of corrosion when tested in accordance with IS 7531.

8 MARKING

8.1 The rongeur shall be legibly and indelibly marked with the manufacturer's name, initials or registered trade-mark and the word 'SS'.

8.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

9 PACKING

The rongeur shall be wrapped in moisture-proof paper and then packed individually in cardboard carton. Alternatively, packing may be done as agreed to between the purchaser and the supplier. Only biodegradable material shall be used for packaging.

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Neurosurgery Instruments Implants and Accessories Sectional Committee, MHD 07

<i>Organization(s)</i>	<i>Representative(s)</i>
G B Pant Hospital, New Delhi	PROF DALJIT SINGH (<i>Chairperson</i>)
All India Institute of Medical Sciences, New Delhi	DR S. S. KALE DR P SARAT CHANDRA (<i>Alternate</i>)
B. Braun Medical India Private Limited, New Delhi	DR ANMOL KUMAR RAY MS GAYATRI GARG (<i>Alternate I</i>) SHRI ARIHANT JAIN (<i>Alternate II</i>)
Boston Scientific India Private Limited, Gurugram	SHRI DEV CHOPRA SHRI PRASHANTH PRABHAKAR (<i>Alternate</i>)
Central Drugs Standard Control Organization, New Delhi	DR RAVI KANT SHARMA
Christian Medical College, Vellore	DR SARVPREET SINGH GREWAL
Defence Bio-Engineering and Electromedical Laboratory, Ministry of Defence, Bengaluru	DR JAYANT DANIEL DR G. SRIPATHY (<i>Alternate</i>)
Directorate General Armed Forces Medical Service, New Delhi	AIR CMDE M. S. SRIDHAR DR A ARIVAZHAGAN (<i>Alternate</i>)
Directorate General of Health Services, New Delhi	DR AJAY CHOUDHARY DR K. B. SHANKER (<i>Alternate</i>)
G Surgiwear Limited, Hathoura Bujurg	DR GHANSHYAM DAS AGRAWAL SHRI EHTISHAM AHMED KHAN (<i>Alternate</i>)
HLL Lifecare Limited	DR ABI SANTHOSH APREM DR JEEVAN DOSS (<i>Alternate</i>)
Indian Institute of Technology Bombay, Mumbai	PROF DIPTI GUPTA
Indian Institute of Technology Hyderabad, Hyderabad	DR ARAVIND KUMAR RENGAN DR AVINASH ERANKI (<i>Alternate I</i>) DR KOUSIK SARATHY S. (<i>Alternate II</i>)
Indian Institute of Technology Kanpur, Kanpur	DR NITIN GUPTA DR D. S. KATTI (<i>Alternate</i>)
Indian Institute of Technology Kharagpur, Kharagpur	DR PRANAB KR DUTTA DR MANJUNATHA M. (<i>Alternate</i>)
Johnson and Johnson Private Limited, Mumbai	SHRI YATEEN SHAH

<i>Organization(s)</i>	<i>Representative(s)</i>
Kalam Institute of Health Technology, Vishakhapatnam	DR JITENDAR SHARMA SHRI DILIP KUMAR CHEKURI (<i>Alternate I</i>) SUSHMITHA CHOWDARY (<i>Alternate II</i>)
King George's Medical University, Lucknow	DR B. K. OJHA DR. ANIL CHANDRA (<i>Alternate</i>)
National Institute of Mental Health and Neurosciences, Bengaluru	DR MALLA BHASKARA RAO
Sir Ganga Ram Hospital, New Delhi	DR SATNAM CHHABRA DR V. S. MADAN (<i>Alternate</i>)
South India Surgical Company Limited(SISCO), Chennai	SHRI ASHOK BAJAJ SHRI BHARAT BHUSHAN (<i>Alternate</i>)
Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	DR GEORGE C VILANILAM DR KRISHNAKUMAR K (<i>Alternate</i>)
Stryker India Private Limited, Gurugram	SHRI SHIVKUMAR HURDALE
BIS Directorate General	SHRI A. R. UNNIKISHNAN, SCIENTIST 'F'/SENIOR DIRECTOR AND HEAD (MEDICAL EQUIPMENT AND HOSPITAL PLANNING) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
MS UROOSA WARSI
SCIENTIST 'B'/ASSISTANT DIRECTOR
(MEDICAL EQUIPMENT AND HOSPITAL PLANNING), BIS

Bureau of Indian Standards

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This Indian Standard has been developed from Doc No.: MHD 07 (20241).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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